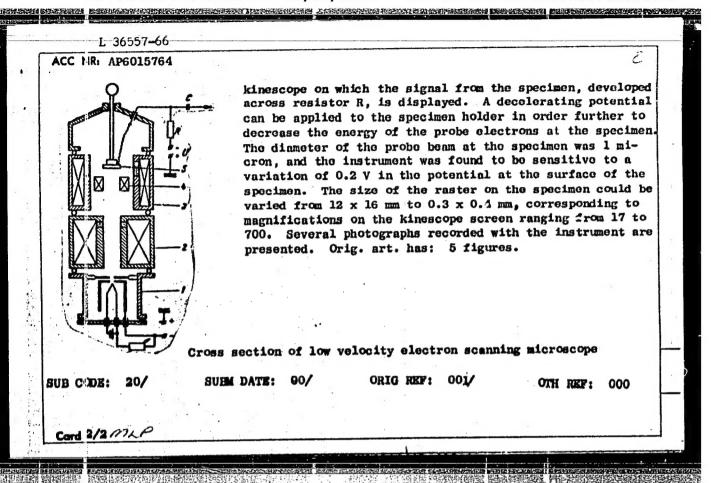
| L 365 7-66 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) AT/JD  ACC 1 Ri APG015764 (A, N) SOURCE CODE: UR/0048/66/030/005/0778/0780   |  |
|---|--|
| AUTHOF: Vertsner, V. N.; Lumonov, R. I.; Chentsov, Yu. V.   |  |
| ORG: none  TITLE: The use of low velocity electrons in an electron scanning microscope / Report,  Fifth All-Union Conference on Electron Microscopy held in Sumy 6-8 July 1965/   |  |
| SOURCH: AN SSSR. Izvdstiya, Seriya fizicheskaya, v. 30, no. 5, 1966, 778-780  |  |
| TOPIC TAGS: electron microscope, electronic scan, electron beam, electron energy  |  |
| ABSTRICT: An electron scanning microscope employing an accelerating potential of from 500 to 2000 V has been developed and a pilot model has been constructed. The use of a low accelerating potential entails some deterioration of the resolving power but provides higher sensitivity to small variations of the electric and magnetic fields at vides higher sensitivity to small variations of the electric and magnetic fields at vides higher sensitivity to small variations of the electric and magnetic fields at vides higher sensitivity to small variations of the electric and magnetic fields at vides higher sensitivity to small variations of the low energy probe beam makes it possible to detect very thin films of foreign material on the surface of the specimen. Moreover, the secondary emission coefficient of some insulating materials specimen. Moreover, the secondary emission coefficient of some insulating materials for low energy incident electrons is close to unity, and it is accordingly possible to study such materials without first coating them with metal. A cross section of the study such materials without first coating them with metal. A cross section of the study such materials without first coating them with metal. A cross section of the study such materials without first coating them with metal. A cross section of the study such materials without first coating them with metal. The beam is deflected by the windings focused by lenses 2 and 3 onto the specimen 5. The beam is deflected by the windings focused by lenses 2 and 3 onto the specimen 5. The beam is deflected by the windings focused by lenses 2 and 3 onto the specimen 5. |  |
| Card 1/2  |  |



EWT(m)/EWP(e) L 36:137-66 SOURCE CODE: UR/0048/66/030/005/0835/0839 ACC IIR APG015778 AUTHOR: Zhdanov, Gl. S.; Vertsner, V. N. ORG: none TITLE: Electron microscope observation of the formation and growth of ice crystals Report, Fifth All-Union Conference on Electron Microscopy held in Sumy 6-8 July 19657 SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 835-839 TOPIC TAGS: electron microscopy, crystal growth, ice, water, electric field ABSTRICT: The growth of ice crystals on cold thin carbon and quartz films was observed with an electron microscope. The ice crystals formed by condensation of residual water unpor which was present in the microscope chamber at pressures ranging from 10-5 to  $10^{-3}$  mm Mg. The accelerating potential was 80 kV, the electron beam diameter was 5-10 microns, and the current density in the Leam was 0.01  $\Lambda/\text{cm}^2$ . Under these conditions heating of the substrate by the electron beam was negligible. Hexagonal, cubic, and anorphous forms of ice were observed. The hexagonal form was stable over a wide range of temperatures; the cubic form could be obtained free from hexagonal admixture only at high vacuum and temperatures below 145° K. A sharp change in the character of the crystallization took place at 170° K; instead of the formation of large crystals, there was observed the almost simultaneous appearance of a large number of nuclei which Card 1/2

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| were<br>port<br>due<br>tho | to chaor<br>to cha<br>proson<br>on (Z. | the fire the fire reging of the conservation o | ly in the plane amentary ice st lm. These struf the quartz su vations with the Math. und Phys. ceeded 500 V/cm | ructures,<br>ctures ar<br>bstrate b<br>ose of J.<br>, 14, 599 | which grew of ascribed to the electron of the | rapidly towa<br>o the action<br>on beam. Fr<br>A.P.van den<br>is conclude<br>e nature of | of electric<br>om a compar<br>Houval, and<br>d that the<br>the filamen | c fields ison of B.J. electric |
| 4                          | en frumpe                              | was al   | early evinced of<br>tance in prepar  | n the ele   | ctron microg<br>ubstrates.  | raphs. The<br>Orig. art. h   | authors tha<br>las: 5 figu   | res.                           |
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|         | I. 2929 66 EWT(m)/EWP(t)/ETI IJP(c) JD  ACC NR AP6012456 SOURCE CODE: UR/0181/66/008/004/1021/1027  AUTHORS: Zhdanov, G. S.; Vertsner, V. N. 39  ORG: ione  TITLE: Direct observation of condensation and crystallization of   | Charles of California and California |
|---------|--|--|
|         | SOURCE Fizika tverdogo tela, v. 8, no. 4, 1966, 1021-1027  source Fizika tverdogo tela, v. 8, no. 4, 1966, 1021-1027  electron microscope,  TOPIC TAGS: mercury, vapor condensation, crystallization, metal film,  particle collision/El'miskop l electron microscope  particle collision/El'miskop l electron-microscope investigations of the  ABSTRAIT: Inasmuch as most electron-microscope investigations of the  kinetics of the growth of thin films produced during evaporation of   | The same section of the section of t |
|         | metals in the microscope difference, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process of their occur- produced particles, and not the more interesting process o |  |
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L 2929'-66 AP6012456 ACC NRI films were cooled to 190 -- 125K. Because of ice formation, slow condensation could be observed only at temperatures below 135K. At all temperatures from 190 to 125K, the mercury condensed in the form of liquid drops. The liquid mercury particles were not produced simultaneously, but during the first few minutes of condensation, after which no formation of new particles was observed in practice. With increasing temperature, the rate of condensation decreased. The lifetime of the mercury atoms on the substrate at 135K and the binding energy with the substrate were calculated from the results. The values obtained were approximately 1.5 sec and were found to be 1 x 10-4 sec and 10.5 kJ/mole. The kiretics of the condensation of the mercury is described from the point of view that the condensation begins with random collisions between migrating atoms, and that the initial mercury drops grow from condensation nuclei containing only several atoms. Many of the secondary effects occurring during the crystallization are briefly described. Orig. art. has: 4 figures. ORIG REF: 006/ OTH REF: 009 29Jul65/ SUB CODE: 20/ SUBM DATE:

VERTSMER, V. N. (Phys)

WERTSMER, V. N. (Phys) -- "Clinical Characteristics of a Mixed Infection of Scarlet Fever and Chicken Pox." Sub 22 Sep 52, Second Moscow State Medical Inst imeni I. V. Stalin. (Dissertation for the Degree of Candidate in Medical Sciences).

S): Vechernaya Moskva January-December 1952

VERTSNER, V.N.; IVANOVSKAYA, T.Ye.

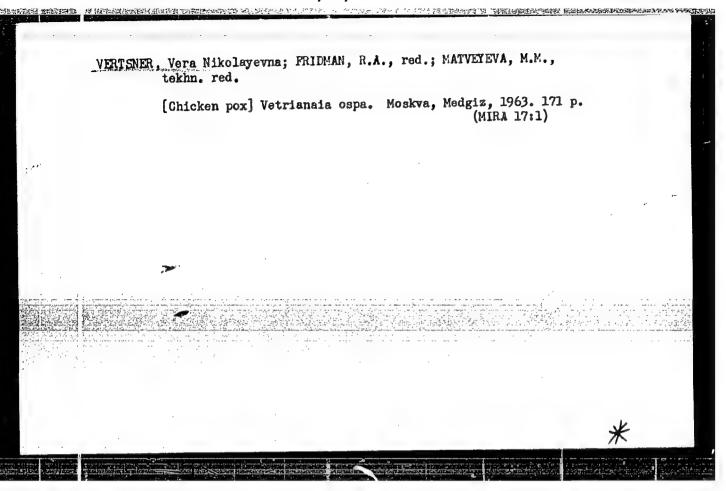
A case of fatal chicken pox in a one-year-old child. Pediatria no.1:78-80 Ja-F '54.

1. Iz detskoy gorodskoy klinicheskoy bol'nitsy No.1 (nauchnyy rukovoditel' - deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR professor M.A.Skvortsov, glavnyy vrach Ye.V.Prokhorovich).

(Chicken pox)

# VERTSNER, V.N.; MAZAROVA, B.M. Clinical aspects of encephalitis in chicken pox. Pediatria 39 no.4:44-49 Jl-Ag '56. (MIRA 9:12) 1. Is 1-y Moskovskoy detskoy klinicheskoy bol'nitsy (glavnyy vrach - sasluzhennyy vrach RSFSR Ye.V.Prokhorovich, nauchnyy rukovoditel' - prof. D.S.Futer) i Gosudarstvennogo pediatricheskògo instituta HEFFER (dir. - kandidat meditsinskikh nauk V.N.Karachevtseva) (GHICKEN POX. compl. encephalitis in child., clin. aspects) (ENCEPHALITIS, eticl. and pathogen. chickenpox in child, clin. aspects)

# Clinical characteristics of mixed infections of diphtheria and chickenpox. Pediatrita 38 no.9:58-62 3 '60. (MIRA 13:12) 1. Is detakey gorodskoy klinicheskoy bol'nitsy No.1 Moskvy (glavnyy vrach - zasluzhennyy vrach RSFSR Is.V. Prokhorovich). (CHICKENPOX) (DIPTHERIA)



### CIA-RDP86-00513R001859610003-8 "APPROVED FOR RELEASE: 09/01/2001

3/048/63/027/003/021/025 9136 B. 15

UTHORS:

Il'in, M. M. Solov'yev, A. H., Vertsner, V. N., Dutov, G. G., Kolchev, B. S., and Toporkov, S. A.

PITLE:

A commercial Mar-1 (MAR-1) instrument for X-ray

microanalysis

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 27, no. 3, 1963, 420-426

This paper describes in detail a new MAP-1 (MAR-1) X-ray microanalyzer developed and tested in the Krasnogorskiy mekhanicheskiy zavod (Krasnogorsk Machine Plant). The instrument consists of the recorder. and of the microanalyzer itself, comprising the electronoptica. system providing the electron probl. 2 X-ray spectrometers, a specimen chamber with an optical microscope, the electrical input circuit, and the vacuum system. The electron source is a three-electrode gun with an automatic negative shift. The optical mioroscops makes it possible to observe the surface of the specimen at a magnification of 450 X, the resolution being < 1 . The non-vacuum spectrometer analyzes X-rays with a wave-Card 1/2

CIA-RDP86-00513R001859610003-8" APPROVED FOR RELEASE: 09/01/2001

S/048/63/027/003/021/025 B106/B236

A commercial ...

length of up to 1.5 A, and the vacuum spectrometer those from 1.5 to 10 A. The spectra are analyzed using Johann's method. The Bragg angles range from 18 to 40°. The analyzer crystals are (1340) quartz crystals with a radius of curvature of 500 mm. The diameter of the X-ray source is 1-2 u; this value depends on the diameter of the electron probe, which is  $\epsilon 1\mu$  . The amperage in the focused probe, is about 10-6 A and the current stability amounts to 0.5 % per hour. The instrument makes determinations on the specimen possible in the 1 - 2 m range. When the specimen is impermeable the change in the Bragg angle of the elements from Mg to U can be determined by using both spectrometers. The distribution of the element in the specimen to be determined in the given direction can also be determined. This is done by displacing the specimen under the electron probe with ar electric motor at a fixed Bragg angle corresponding to a characteristic frequency. . The dispersion and sensitivity of the instrument were studied; the sensitivity in an analysis of copper via the K doublet was < 0.1 %. There are 8 figures.

Cird 2/2

SOLOV'IEV, A.M.; VERTSNER, V.N.

Problems arising in designing an I-ray microanalyzer. Izv.AN SSSR.
Ser.fiz. 25 no.61691-694 Je '61. (MIRA 14,76)

(I-ray microscope)

SOLOV'YEV, A.M.; VERTSNER, V.N.; IL'IN, M.M.; TOPORKOV, S.A.; KOLCHEV, B.S.;
DUTOV, G.G.

Industrial X-ray spectral microanalyzer MAR-1. Izv. AN SSR.

[Note of the content of the content

# "APPROVED FOR RELEASE: 09/01/2001

## CIA-RDP86-00513R001859610003-8

1. 2 1634 66 EWT (m)/T/EWP(e)
ACC NR. AP6011224 SOURCE CODE: UR/04.13/66/000/006/0062/0062 INVENTOR: Kutateladze, K. S.; Verulashvili, R. D. OR(: none TIME: Electrical insulation glass. Class 32, No. 179884. [announced by Tbilisi\_ State Scientific Research Institute of Construction Materials (Tbilisskiy Gosudarstrennyy nauchno-issledovatel'skiy institut stroitel'nykh materialov)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 62 TO TAGS: electrical insulation glass, dielectric glass AB TRACT: An Author Certificate has been issued for an electrical insulation glass with good dielectric properties. The glass has the following composition: SiO2, 52-58%; Al<sub>2</sub>O<sub>3</sub>, 8-10%; Fe<sub>2</sub>O<sub>3</sub>, 1.5-2%; MnO, 5-7%; CaO, 8-10.5%; MgO, 4-6%; Na<sub>2</sub>O, 8-13%; K<sub>2</sub>O, 2.5-4%. In addition to these ingredients the glass contains 0.1-0.5% TiO2. SUB CODE: 11/ SUBM DATE: 06Ju164/ ATD PRESS: 4225 666.112.3 unc: 666.117.9:537.226 Ca:d 1/1 .

# Conditions for the transmission of Toxoplasma gondii from mother to fetus. Dokl. AM SSSR 149 no.4:999-1000 Ap '63. (MIRA 16:3) fetus. Dokl. AM SSSR 149 no.4:999-1000 Ap '63. (MIRA 16:3) fetus. Predstavleno akademikom Ie.N.Pavlovskim. Predstavleno akademikom Ie.N.Pavlovskim. (TOXOPLASMOSIS) (FETUS—DISEASES)

EVT(d)/EVT(m)/EVP(c)/EVP(v)/T/EVP(t)/EVP(k)/EVP(h)/EVP(1)/EVA(h)/ETC(m)-6L 23 14-56 SOURCE CODE: UR/0032/65/031/008/1020/1021 AP6013575 IJP(c) JD ACC NRI AUT OR: Lomberg, B. S.; Vertman, A. A.; Yakobson, A. M.; Zheladnov, V. I.; Polyakov, A. Yu. ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurgii) TITLE: Unit for measuring the interphase metal-slag tension at high temperatures SOURCE: Zavodskaya laboratoriya, v. 31, no. 8, 1965, 1020-1021 TOITC TAGS: furnace, slag, thermocouple, vacuum seal, x ray application, molten metal, corundum, magnesite AR TRACT: This device is a resistance furnace with a two-filament heater. A prucible is placed in the isothermal zone of the heater on a magnesite support. The melting point is measured with a platinum-platinum-rhodium thermocouple set on the bottom of the crucible. A device mounted on the too cover permits adding of slag during the experiment. Sealing of the assembly is done with vacuum seals. Viewing windows are covered with 0.1-0.2 mm thick aluminum foil. Construction of the unit permits its operation in either a vacuum or in a neutral gas atmosphere. Experiments were conducted on corundum and magnesite crucibles, 35 mm in diameter. A substrate cut from a cylindrical crucible of smaller diameter made of the same material is placed on the bottom of the crucible. Diameter of the metal drop on this substrate is 18-20 mm. To obtain an upper edge of the Card 1/2

# L 23214-66

ACC NR: AP6013575

substrate border in the form of a true sphere, it is polished with convex and concave spheres. This provided for symmetry of the liquid metal drop. X-rays were taken with an RUP-1 x-ray device.

Because of the protective shields and the intensive water cooling of the furnace housing it is possible to place the film at a minimum distance from the object. The film is placed in an aluminum cassette protected from the object. The film is placed in an aluminum cassette protected from the center scattering radiation by lead plates, 2 mm thick. Distance from the center of the drop to the film is 10 cm and 110 cm to the focal point of the tube. A clear image of the metal drop in the slag is obtained when the voltage on a clear image of the metal drop in the slag is obtained when the voltage on the tube is 180 kilovolts, current force-15 milliamps, and at an exposure time of 40-60 seconds. The interphase stress is calculated according to the disensions of the drops found. The interphase tension of certain nickelbare alloys with slags was determined. The unit can be recommended for measuring the interphase tension between metals and slags of different compositions. Orig. art. has: 2 figures and 1 table. [JPRS]

SUB CODE: 13 / SUBM DATE: none / ORIG REF: OOL

Cird 2/2 MilyS

# 'ERTUN, A.

'ECH NOLOGY

PERIODICAL: BUDOWNICTWO PRZEMYSLOWE. Vol. 7, no. 9, Sept. 1958

PERTUN, A. Evaluation of the possibilities of realizing a project,

performed with the assistance of future patrons, postulated to avoid

mistakes in dwelling planning. p. 59.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 4.

April, 1959, Unclass

# VERTUN, A.

The methodology of  $dr_n$ wing up projects of organizing construction work in the light of recent decisions and instructions.

p. 32 (Budownictwo Przemyslowe) Vol. 4, no. 6, June, 1955, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7. NO. 1. JAN. 1958

VEK. TUN. H.

VERTUII, A.

Graphic charts for annual plans in construction.

p. 58 (Budownictwo przemyslowe) Vol. 4, No. 9, Sept. 1955, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7,NO. 1, JAN. 1958

VIRTUN, A.

Stages in planning the organization of construction and work.

F. 31 (BUDOWNICTWO PREMYSLOWE) Poland, Vol. 6, No. 9, Sept. 1957

30: Monthly Index of East Equopean Accessions (AEEI) Vol. 6, No. 11, November 1957

VERTUM, A.

TECHNOLOGY

VERTUM, A. Evaluation of the possibilities of realizing a project, performed with the assistance of future patrons, postulated to avoid mistakes in dwelling planning. p. 59.

Vol. 7, no. 9, Sept. 1958.

Nonthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 12, Dec. 158.

CIA-RDP86-00513R001859610003-8" APPROVED FOR RELEASE: 09/01/2001

GOROWSKI, Tadeusz; VERTUN-GOROWSKA, Barbara

Hyperfunctioning nodulur goiter masked by circulatory insufficiency (masked thyro-cardiac syndrome). Pol arch. mad. wewnet. 34 no.8:

1073-1079 '64.

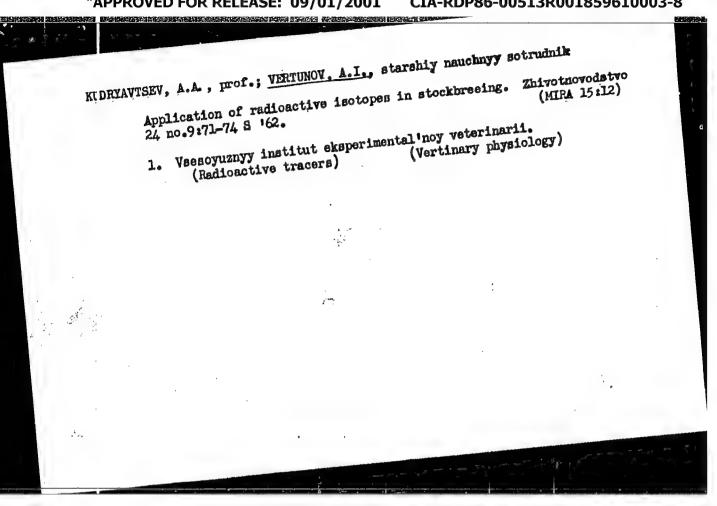
1. Z I Katedry Chorob Wewnetrznych Studii Doksztalcania Lekarzy
Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. W. Akademii Medycznej w Warszawie Szpitala Czerniakowskiego Hartwig) i z Oddzialu Chorob Wewnetrznych Szpitala Czerniakowskiego w Warszawie (Kierownik: prof. dr. med. M. Fe;gin).

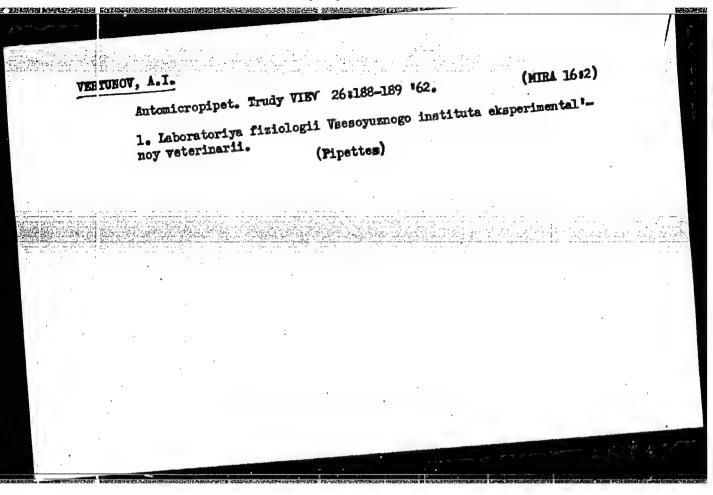
KIDRYAVISEV, A.A., prof.; Kizimichev, A.V.; Vertunov, A.I.; Kuzvavev, A.N.

Composition and properties of the blood and bone marrow in cattle.

Veterinarita 42 no.10:50-52 0 165. (MIRA 18:10)

1. Veesoyuzayy institut ekeperimentalinov voterinarii.

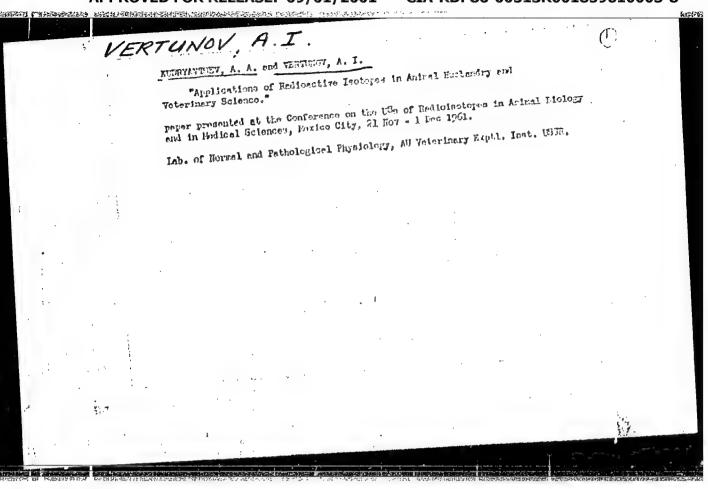




Use of radioactive tracers in stock breeding and in veterinary medicine. Veterinariia 36 no.9:11-17 S '59. (MIRA 12:12)

1.Laboratoriya fiziologii Vsesoyuznogo instituta eksperimental'noy veterinarii (VIEV).

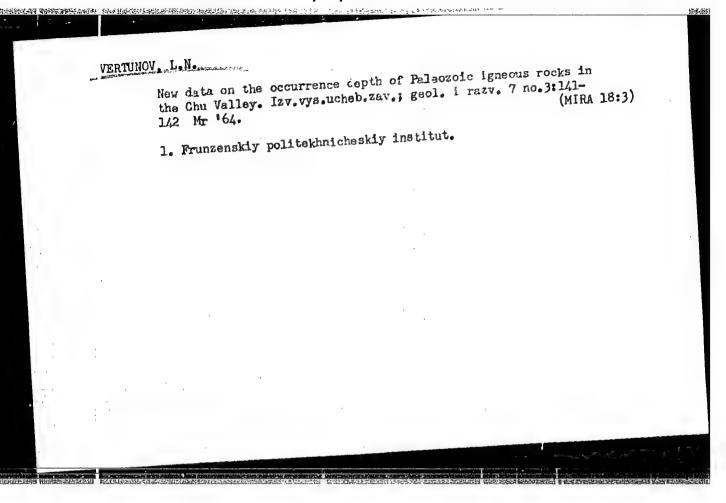
(Radioactive tracers) (Veterinary medicine)

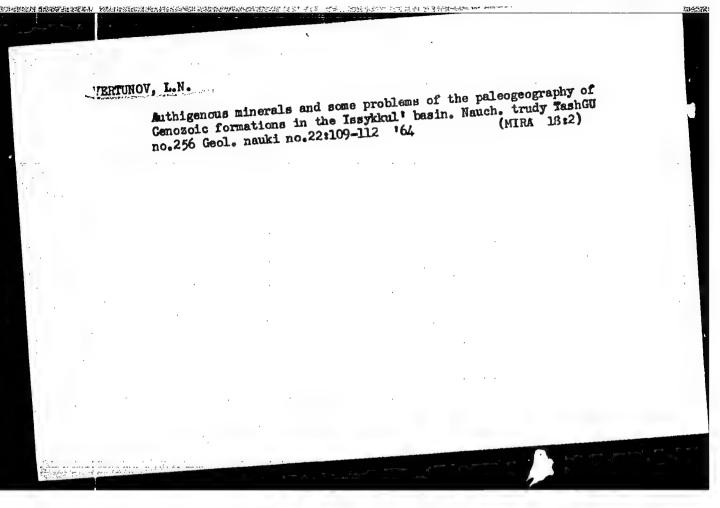


VIRTUNOV, L.N.; TSEKHMEYSTRYUK, A.K.

Possibility of using clay from the Tertiary sediments of the Malyy Orgochor anticline for making clay muds. Izv. vys. ucheb. zav.; (MIRA 16:10) neft' i gaz 4 no.3:33-36 '61.

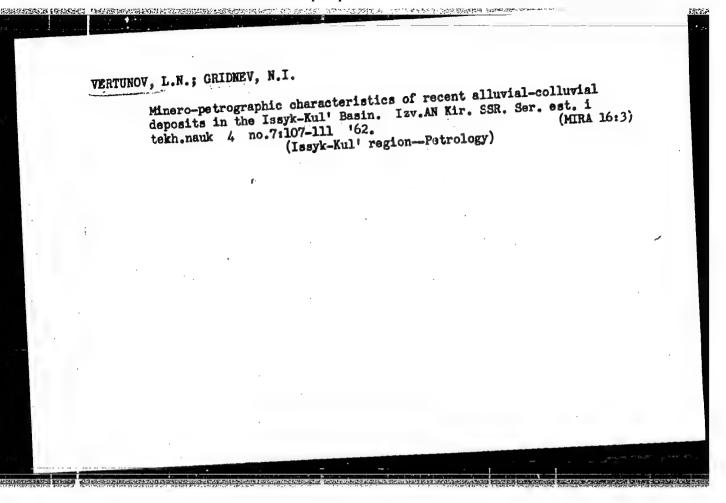
1. Frunzenskiy politeklmicheskiy institut, Issyk-kul'skaya ekspeditsiya.





# Facies analysis of neoganic Molasse deposits of the southeastern part of the Chu Depression based on the naterials of deep borings. Dokl. AN SSSR 147 no.1:174-176 (MIRA 15:11) N '62. 1. Frunzenskiy politekhnicheskiy institut. Predstavlenc akademikom D.V. Nalivkinym. (Chu Valley—Geology stratigraphic)

# VERTUNOV, L.N. Problem of oil and gas potentials of Tertiary continental molasse sediments of the southwestern Issyk-Kul' Basin (morthern Tien Shan). Izv.vys.ucheb.zav.; neft'i gaz 3 no.3:3-8 '60. (MIRA 14:10) 1. Frunzenskiy politekhnicheskiy institut. (Issyk-Kul' region--Fetroleum geology) (Issyk-Kul' region--Gas, Natural---Geology)

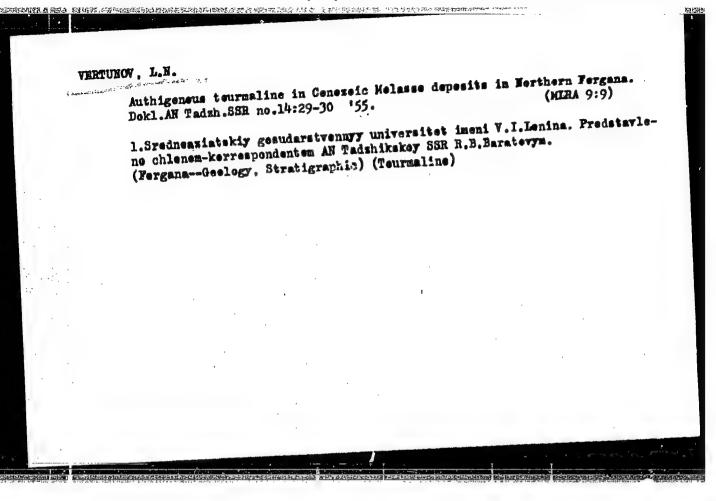


VERTUNOV, L.N.; IL'YASOVA, A.S.

Mineralogical composition of the Tertiary continental sediments

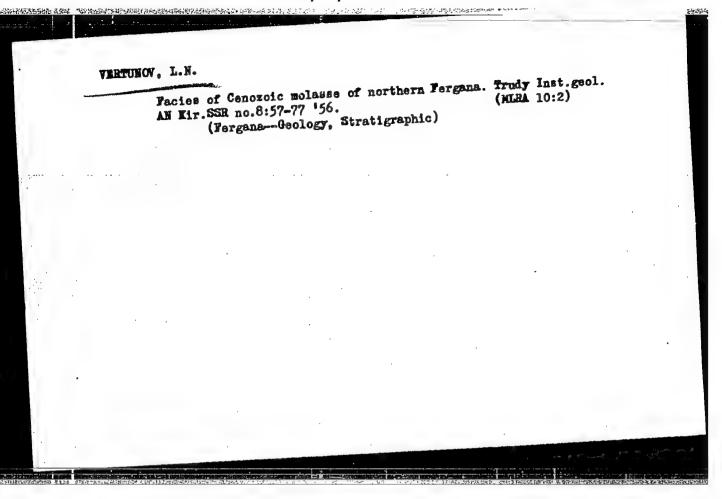
Mineralogical composition of the Jeke Issykkul'. Zap. Kir. otd.
in the southeastern shore of the lake Issykkul'. Zap. Kir. otd.
(MIRA 17:11)
Vses. min. ob-va no.3:81-92

'62.



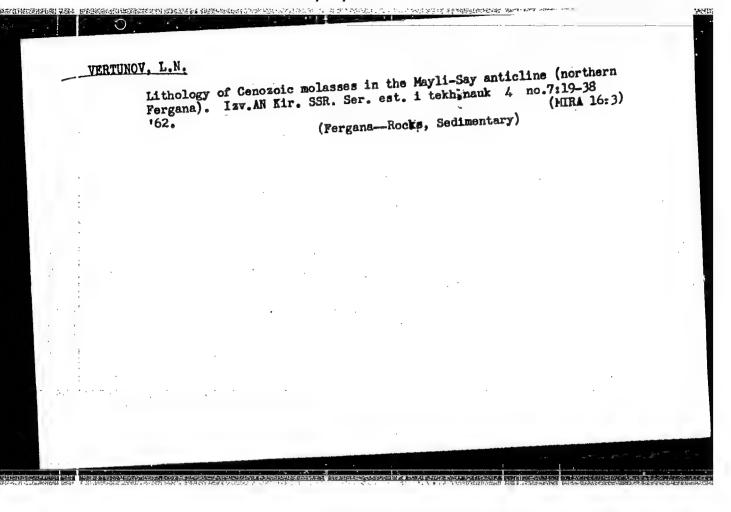
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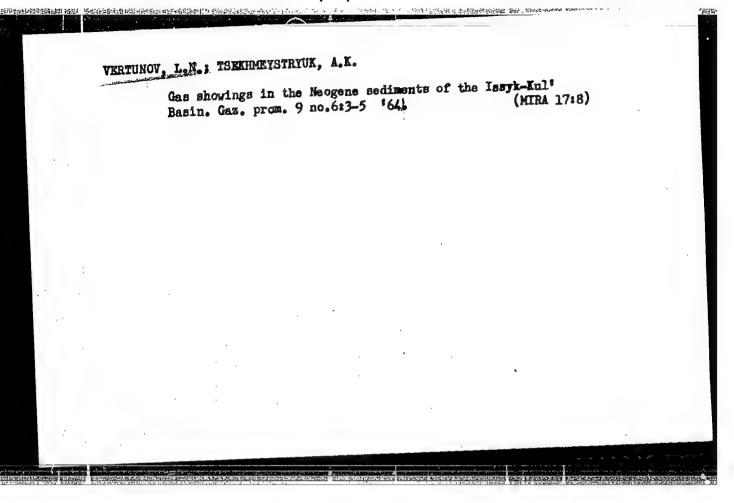
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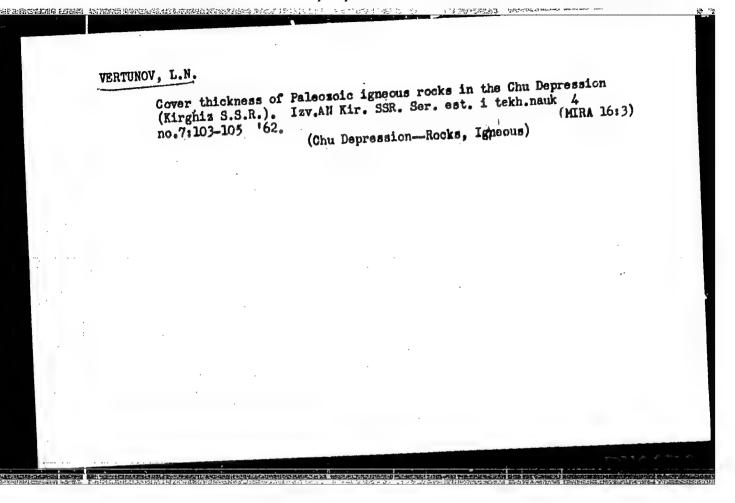


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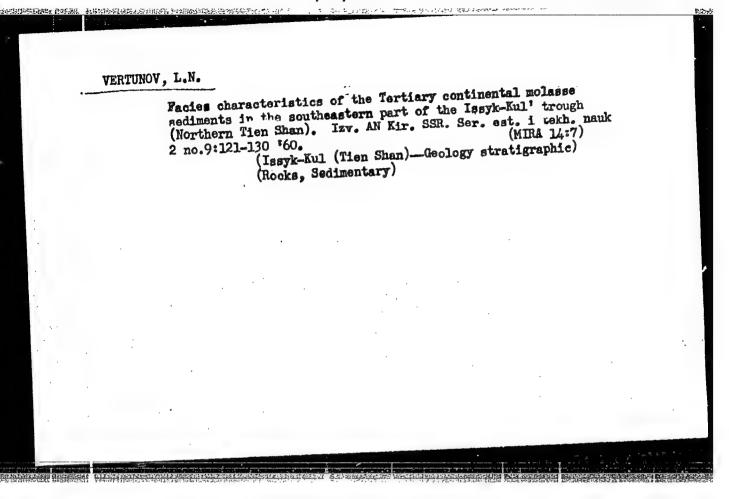
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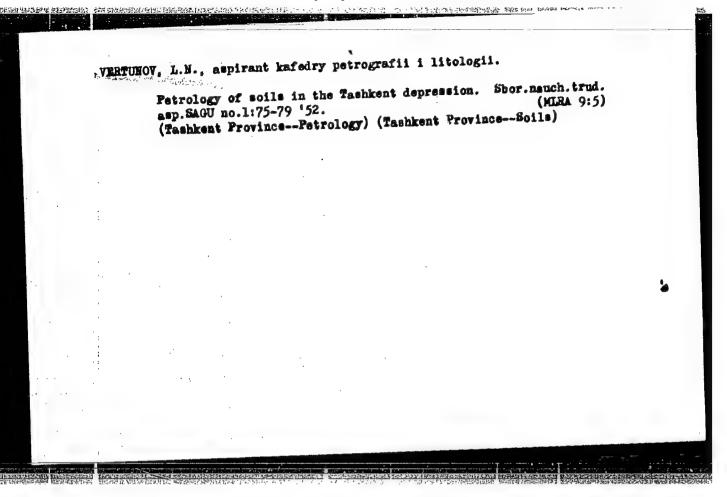












15-1957-10-13963

Translation from: Referativnyy zhurmal, Geologiya, 1957, Nr 10,

pp 88-89 (USSR)

Vertunov, L. N. AUTHOR:

The Cenozoic Molasse Facies of Northern Fergana (Fatsii

kaynozoyskikh molass Severnoy Fergany) THTLE:

Tr. In-ta geol. AN KirgSSR, 1956, Mr. 8, pp 57-77 PERIODICAL:

The outline of the subdivisions of the molasse in Fer-ABSTRACT:

gana is based on periodic alternating phases of sedimentary integration and differentiation, changing from one to the other in definite sequences. The Cenozoic molasse of northern Fergana belongs to the genetic facies type of the piedmont-fan zone and is subdivided by the author into a number of smaller facies which are combined into zones. 1) The fan-clastic (fanglomerate) zone is characterized by various conflomeratic facies; pebble-cobble breccia is most abundant, followed by sandy granule conglomerate and by boulder conglomerate.

The facies of this zone are divided into 1) the torren-Jard 1/4

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15-1957-10-13963

The Cenozoic Molasse Facies of Northern Fergana

tial boulder facies, consisting of irregularly and poorly rounded boulders 25 to 85 cm across; 2) the torrential pebble-cobble facies, occurring in thick layers or lenses (from several meters to several tens of meters), consisting of pebbles 3 to 4 cm across or, less commonly, of cobbles 8 to 9 cm across, and genetically subdivided into dry-valley, stream, carbonatized, residual, and mud-ball varieties; and 3) the torrential granule facies (similar to that described above), occurring in thin lenses and distinguished by smaller fragments, and containing dry-valley-carbonatized, dry-valley-manganiferous, and stream-carbonatized varieties. 2) The fan-loess (fan-siltstone) zone is very extensive in northern Fergana and consists of fine-clastic, varigrained sand-silt rocks. They are subdivided into a) the channel facies, characterized by coarse, irregularly sorted deposits; b) the flood-plain facies, distinguished from the channel facies by better sorting and finer grain size; c) the loss facies, very abundant among the molasse sediments, which forms thick beds (several tens of meters) and is very persistent along the strike; and d) the shoe-string facies, represented by mixed Card 2/4

15-1957-10-13963

The Cenozoic Molasse Facies of Northern Fergana

rocks and by masses of fine-grained material with individual grains of sand (or even granules). 3) The fan-stagnant-water (playa) zone occurs in the peripheral parts of the piedmont plains, in dammed-up and swampy lowlands; it consists of silty muds and exhibits well-defined and thin horizontal bedding. Genetically and lithically it may be subdivided into a) the ornamented facies, formed of buried soils with fine networks of plant root impressions, carbonate "cocoons," and similar features; b) the meadow facies, distinguished by spotted, ethereal, reddish-ochre colors and bluish-gray, irregularly scattered spots, and by great variety in clastic content in different regions; c) the playa (periodic stagnant-water) facies, characterized by very thin and distinct horizontal bedding and by fine-grained components; d) the lacustrine-paludal facies, formed in the lowland parts of the piedmont plain in waterfilled basins containing plants, and consisting of silty carbonate lutites with abundant plant remains; e) the epigenetic carbonatized zone--very dense marls of cryptocrystalline calcilutites; and the fan-eolian facies, characterized by very Card 3/4

The Cenozoic Molasse Facies of Northern Fergana

uniform, predominantly sandy composition and by cross-bedding.
Data are cited on the mechanical composition and the mineralogy of all the facies enumerated above, and the conditions under which the rocks were deposited are discussed.

V. G. Rikhter

V. G. Rikhter

# "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610003-8

VERTUNOV, L.N.; KARACHKOVSKATA, A.N.

Barite and celestine from the continental sediments of the Chu Depression (Kirghisistan). Zap. Kir. otd. Vses. min. ob-va (MIRA 17:11) no.3:105-107 162.

15-1957-3-3081

Referativnyy zhurnal, Geologiya, 1957, Nr 3, Translation from:

p 93 (USSR)

Vertunov, L. N. AUTHOR:

Analcime in the Cenozoic Molasse of Northern Fergana TITLE:

(Anal'tsim v kaynozoyskikh molassakh Severnoy

Fergany)

Zap. Uzbekist. otd. Vses. mineralog. o-va, 1956, FERIODICAL:

Mr . 9, pp 61-62 .

Authigenic analcime has been identified in the cement ABSTRACT:

of dark bluish-gray varigrained channel sandstones

which occur in the upper parts of the Sumsar sections. It forms colorless, and Marguzar tabular, pseudocubical grains, ranging from 0.04 to 0.2 mm on the longest edge; it is isotropic and

water clear. The mineral is associated with carbonates. Jard 1/2

15-1957-3-3081

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Analcime in the Cenozoic Molasse of Northern Fergana

The author suggests that the analcime may have formed by chemical decomposition of volcanic rocks in an alkaline environment and a warm climate.

Ye .S.K.

Card 2/2

VERTUNOV, L.H.; SOTIRIADI, K.A.

Brief description of mineralogical and petrological characteristics of upper Cretaceous and Paleogene deposits in Massan-Tau. Trudy (MLEA 9:5) SAGU no.63:31-38 '55.

(Massan-Tau-Geology, Stratigraphic) (Massan-Tau-Wineralogy)

TSEKHMEYSTRYUK, A.K.; KOLESNIKOV, Ia.I.; VERTUNOV, L.N.

Thermal waters in the Issyk-Kul' basin. Priroda 52 no.6:115
(MIRA 16:6)

1. Frunzenskiy politekhnicheskiy institut.
(No subject headings)

ACC NR: APG021477

. SOURCE CODE: UR/0413/66/000/011/0103/0104

INVENTOR; Autsgraf, F. Zh.; Vertushkin, B. A.; Golovin, V. V.; Kon'kov, Yu. A.; Pedoseyev, R. Yu.

ORG: None

TITLE: A pneumatic relay. Class 42, No. 182416

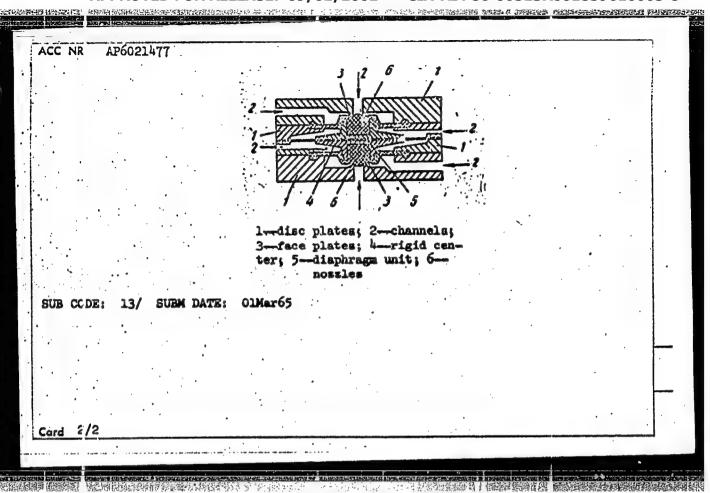
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 103-104

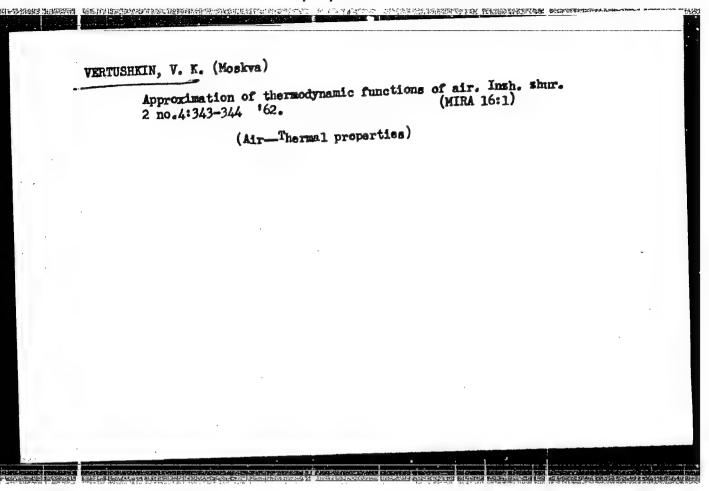
TOPI( TAGS: pneumatic device, nonelectric signal equipment

ABSTRACT: This Author's Certificate introduces a pneumatic relay which contains a housing made in the form of disc plates with channels, a diaphragm unit which forms a number of chambers, and nozzles mounted in the flow chambers. Short circuiting conditions are prevented by making the face plates on the rigid center of the diaphragm unit from an elastic material, e. g. rubber, and putting a greater distance between the planes of these face plates than between the edges of the nozzles.

Card 1/2

UDC: 681.142-525





Щ677 5/258/62/002/004/016/019 E032/E314

1.5100

AUTHOR: Vertu

Vertushkin, V.K. (Moscow)

TETLE:

Approximate thermodynamic functions for air

PERIODICAL:

Inzhenernyy zhurnal, v. 2, no. 4, 1962, 343 - 344

TEXT: Existing approximate expressions for enthalpy as a function of pressure and temperature cover the temperature range 500 - 16 000 K. It is now reported that in the temperature range 15 000 - 20 000 K and pressure range 0.04 - 10 atm., the enthalpy is approximately given by

$$h(Q, P) = -a \ln Q - bP^{-c}(1 - d \ln^2 P)$$
 (2)

where a = 2.84 x 10<sup>4</sup>, b = 3.065 x 10<sup>5</sup>, c = 0.09 and d = 0.00<sup>4</sup> (P is in atm., P is in g/cm<sup>5</sup> and h is in gcal/g). The relative error is in most cases less than ± 3%, as compared with tabulated values. The above expression for the enthalpy may be used to integrate the equations for the steady-state flow of a real non-viscous gas without bringing in the equations of state. There is 1 table.

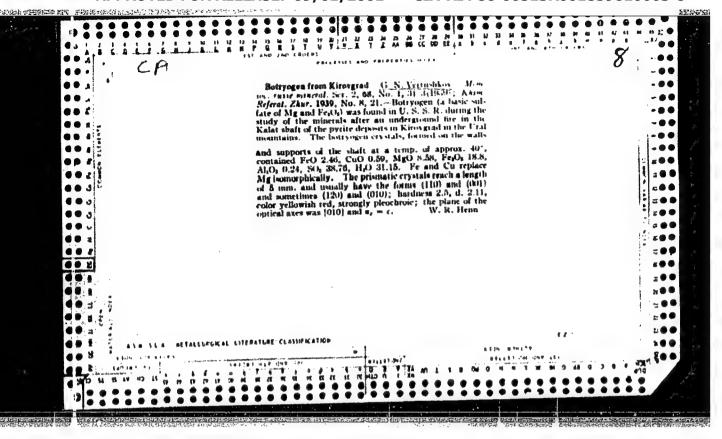
SUBMITTED: May 7, 1962 Card 1/1

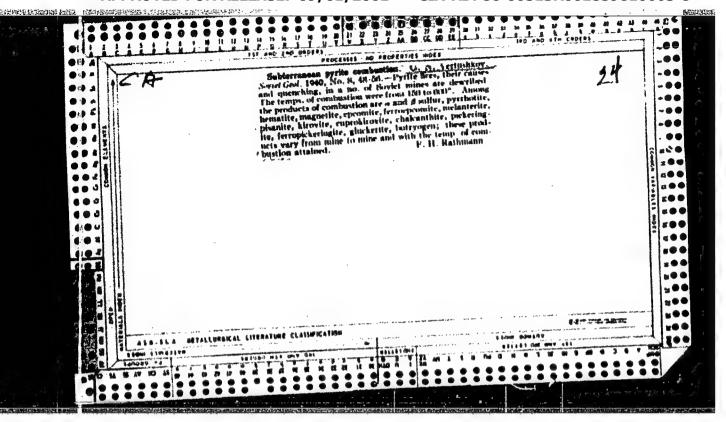
# "APPROVED FOR RELEASE: 09/01/2001

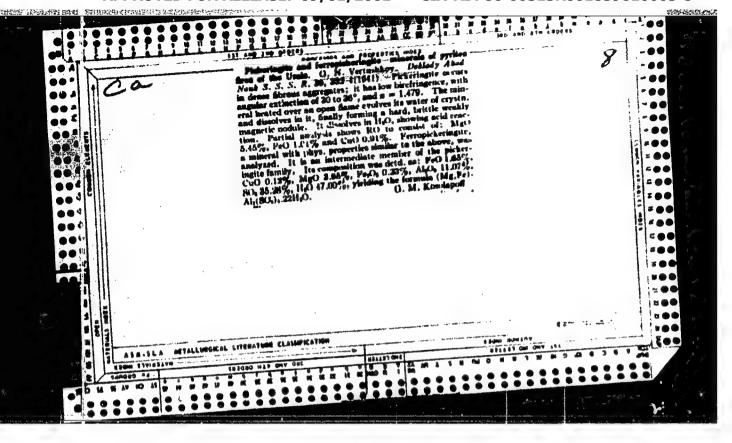
# CIA-RDP86-00513R001859610003-8

EMP(m)/EMT(1)/EMA(4)/EMA(1) UR/0293/56/004/001/0162/0164 7.17709-66 SOURCE CODE: ACI NRI AP6007748 21 AUTHOR: Vertushkin, V. K. OR3: none TITLE: Supersonic air flow past a sphere with equilibrium radiation taken into 1,55 account SCURCE: Kosmicheskiye issledovaniya, v. 4, no. 1, 1966, 162-164 T(PIC TAGS: aerodynamics, hypersonic flow, radiative heat transfer, thermal radiation, shock wave, entropy layer, enthalpy, thermodynamic equilibrium, boundary layer AISTRACT: Radiation effect on distribution of gas dynamic parameters behind a shock wive in an equilibrium air flow at escape velocity is investigated. The radiation a sorption is neglected. A system of equations is derived describing the flow of a perfect radiating gas past a sphere in a spatial coordinate system, with the energy equation containing an additional term expressing radiation. An effective factor x which is the ratio between the real gas enthalpy and internal energy is introduced to account for the real gas effect, while the equation of state is of the form 1=.x-1 P where P is the pressure. The system was solved by a previously developed method ( zvestiya AN SSSR, Mekhanika i Mashinostroyeniye, no. 4, 1964, 60) which consists in 533.601.155 UDC:

# L 17709-66 ACC NR: AP6007748 tracing n rays in the region considered and approximating the intermediate values of the unknown functions with respect to the values of functions on rays. This makes is possible to express the variable with respect to $\theta$ (angle between $\epsilon$ ray and axis on symmetry) through the values of functions on rays, thus reducing the initial systum to a system of ordinary differential equations which may be integrated along the riys. The solution consists in selecting such stand-off distances on the raysat which the boundary condition u = 0 is satisfied on the body surface. The results from computations of the flow past a sphere of 100-cm radius at a speed of 11.4 km/sec and at an altitude of 60 km are presented in graphs. They show that the effective value of x = 1.13 accounts well for real equilibrium properties of air, and that the boundary condition u = 0 is satisfied with accuracy of not less than 0.1%. The effects of radiation show up most strongly upon the distribution of density and enthalpy and substantially less on the velocity distribution and flow pattern. The additional cooling of air due to radiation leads to an abrupt reduction of enthalpy and to an increase of density near the body surface, which is evidence of the presence of a radiation entropy layer having a substantial effect on the boundary layer and heat ransfer processes. The author thanks Academician G. I. Petrov for remarks which were taken into account by the author in revising the article. Orig. art. has: i figures and 1 formula. 001/ ATD PRESS: ORIG REF: 003/ OTH REF: JUB CODE: 20/ SUBM DATE: 15Jan65/ 2/2

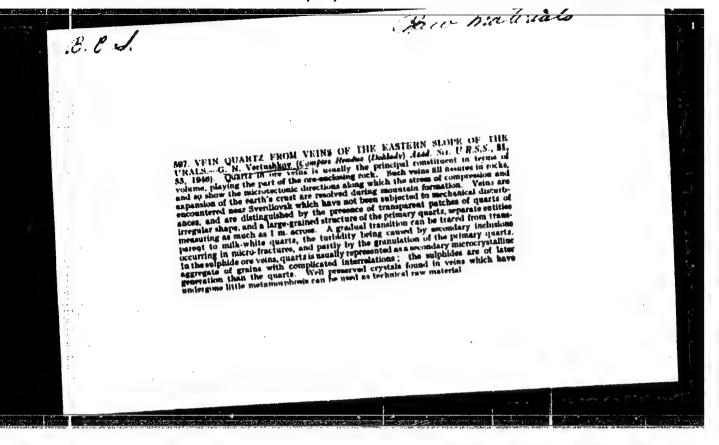






"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-0

CIA-RDP86-00513R001859610003-8



VEITUSHKOV, G. N.

UBSR/quartz
Mineral deposits

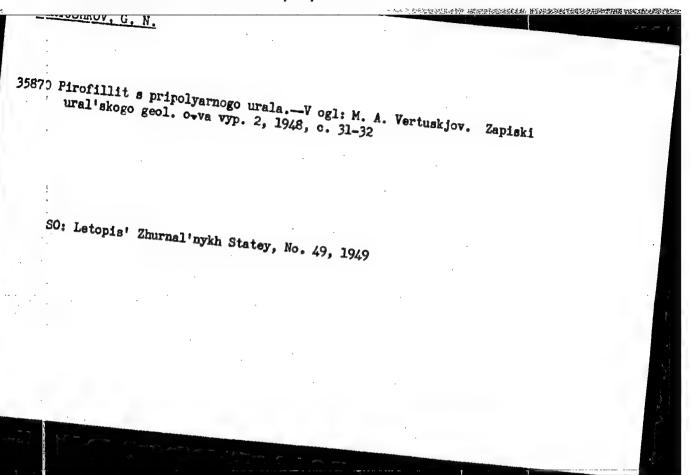
"Foliated Quartz from the Khrustalnaya Gora in the Urale," G. N. Vertushkov, 8 pp

"Zap Vse Min Ob" Vol IXXV, No 4

Deposit of quartz near Sverdlovsk in the Ural Mountains. Study of the vitreous, transparent quartz from this region.

# "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R001859610003-8



VERTUSHKOV, G. N.

Vertishkov, G. N. "Deposits of the alpine type in the Central Urals," Trudy Gorno-geol. in-ti (Akad. nauk SSSR, Ural'skiy filial), Issue 14, 1948, p. 33-48 - Bibliog: 20 items SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

VERTUSIKOV, G. N.

Vertushkov, G. N. "Brockite from Neyvo-Sudyank," Trudy Corno-geol. in-to (Akad. neak SSR, 'ral'skiy filial), Issue 14, 1925, p. 58-60 - Bibliog: 5 items

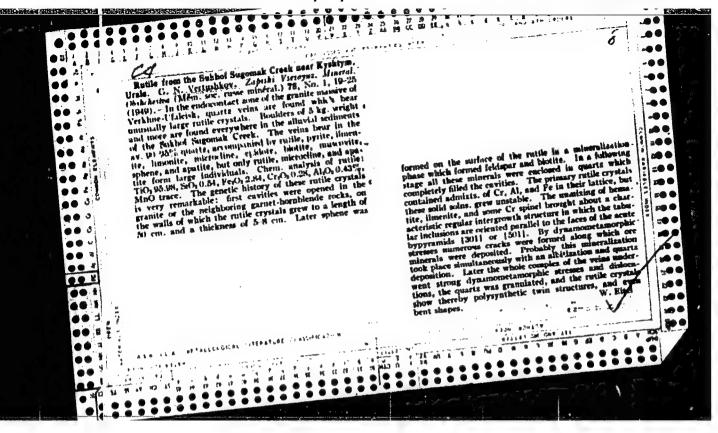
SO: 1-3859, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

VERTUSINOV, G. H.

Vertusikov, G. N. "Sheelite crystals from the Kedrovs'iy deposit," Trudy Gorno-geol. in-ta (Akad. nauk SSSR, Ural'skiy filial), Issue 14, 1948, p. 64-68 - Bibliog: 6 items

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949)

| ERTUSHKIV, G.  | и.  | 1/49T78     |
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|  |   | 25E4 2      |
|  | USSR/Minerals Apr/May/Jun Quartz Mineral Deposits   | 48          |
|  | "Andalusite, Sillimanite, Kyanite and Corundum Fro<br>the Quartz Veins of the Southern Urals," G. N.<br>Vertushkov, Acting Mem, 41 pp | , Z. 35<br> |
|  | "Zapiski V-S Mineral Obshch" Vol LXXVII, No 2   |             |
|  | Describes various forms in which subject minerals are found in southern Ural quartz veine.  |             |
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|  | 1/491   | 78          |
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| e in the second contract of the second contra |   | -           |



VERTUSHKOV, G. N.

USSR (600)

Sverdlovsk

Sap 50 Academy of Sciences - Geologists

"Ne: problems of Genetic Mineralogy," Prof D,P. Grigor'yev, Priroda No 9 pp 22-30 Mentions the following persons as contributing greatly to the development of the science on the USSR: G. G. Lemmleyn, Leningrad, Moscow; I. I. Shafranovskiy, Leningrad; G. N. Vertushkov,

CIA-RDP86-00513R001859610003-8" APPROVED FOR RELEASE: 09/01/2001

Wentushkov, G. N.

Kustanay Province - Anapaite

Messelite from the Kustanay Province. Zap. Vses. min. eb. 81, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified

### CIA-RDP86-00513R001859610003-8 "APPROVED FOR RELEASE: 09/01/2001

VERTUSHICOV, G. N.

Anapait:-Kustanay Province

Messelite from the Kustanay Province. Zap. Vses. min. ob. 81 no. 4, 1952

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified

Oberical Abst.

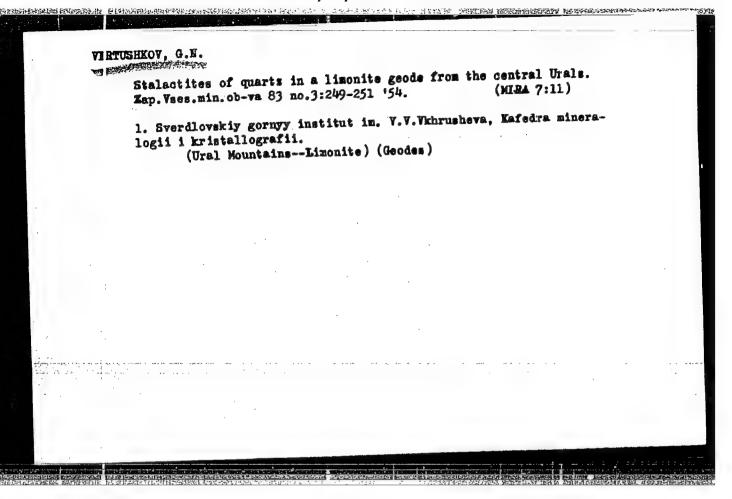
Vol. 48 No. 4

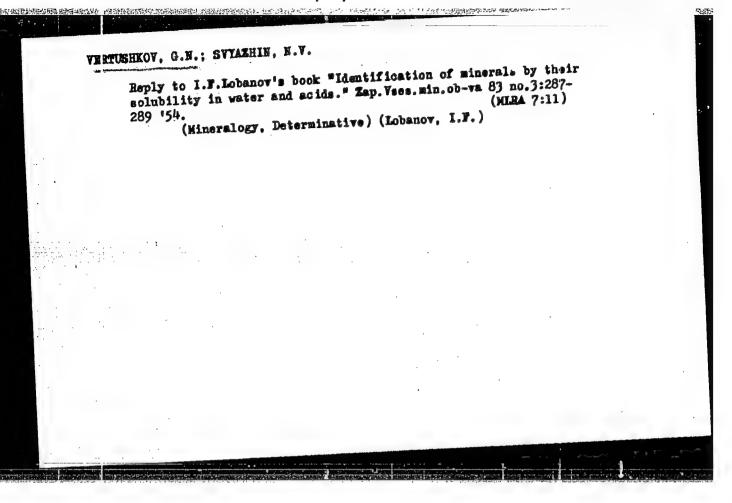
Feb. 25, 1954

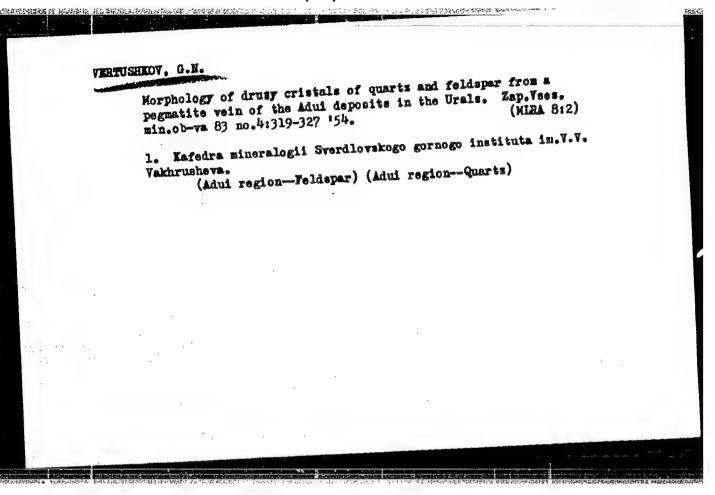
Hineralogical and Geological Chemistry

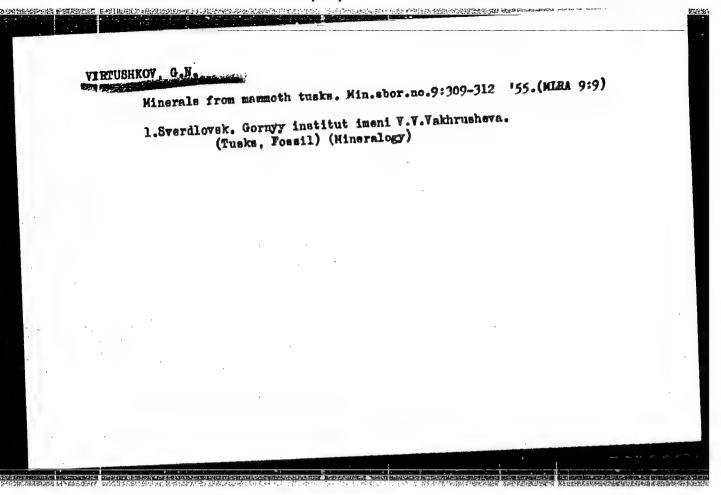
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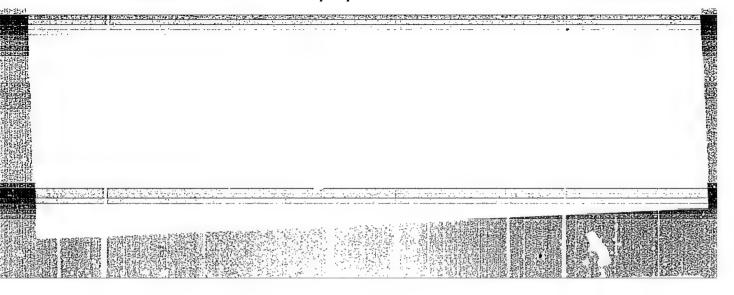
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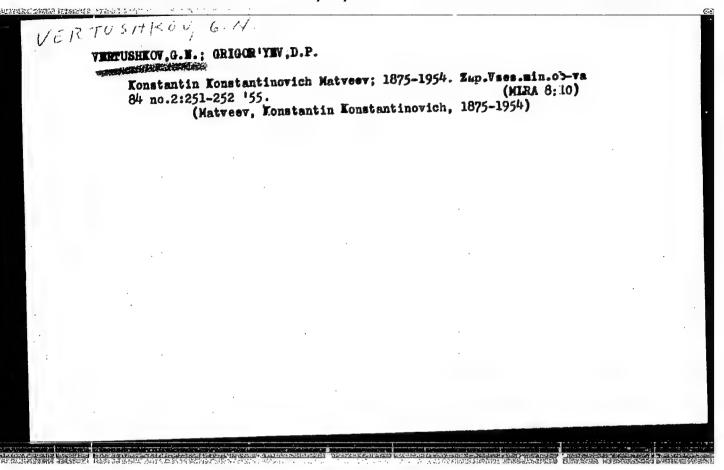












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CIA-RDP86-00513R001859610003-8

VERTUS HKOV, G.N.

AVDONIN, V.N.; VERTUSHKOV. G.N.

Assethysts from the Berezovsk gold ore deposit in the Urals.

Assethysts from the Berezovsk gold ore deposit in the Urals.

(KIRA 10:3)

(Berezovsk region—Amethysts)

1737

| VERTUSHKOV. G.N.  Limonite geode from the Bakal iron ore deposits. Trudy Sver.gor.  (MIRA 10:3)  inst. no.26:94-98 |  |     |        |  |  |  |  |
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| •        | Ilmenite-magnetite ores form delemite veins in the Urals. Trudy  [NIRA 10:3]  Sver.gor.inst. no.26:98-104 *56.  (Ural MountainsHagnetite) (Ural MountainsIlmenite) |  |  |  |  |  |
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# Aleksandr Vasil'evich Kalugin, las of the first cellecters of minerals in the Urals. Zap. Vses.min. eb-va 85 no.1:95-99 '56. (MLRA 9:7) 1. Kafedra mineralogii Sverdlevskogo gornege instituta imeni V. V. Vakhrusheva. (Kalugia, Aleksandr Vasil-evich, 1857-1909)

# VERTUSHKOV, G.N.

USSR/Cosmochemistry - Geochemistry. Hydrochemistry, D

Abst Journal: Referat Zmir - Khimiya, No 19, 1956, 61300

Author: Vertushkov, G. N., Yarosh, P. Ya.

Institution: None

Title: Black Chrysotile-Asbestos from the Bazhenevsk Deposit in the Urals

Original

Periodical: Dokl.

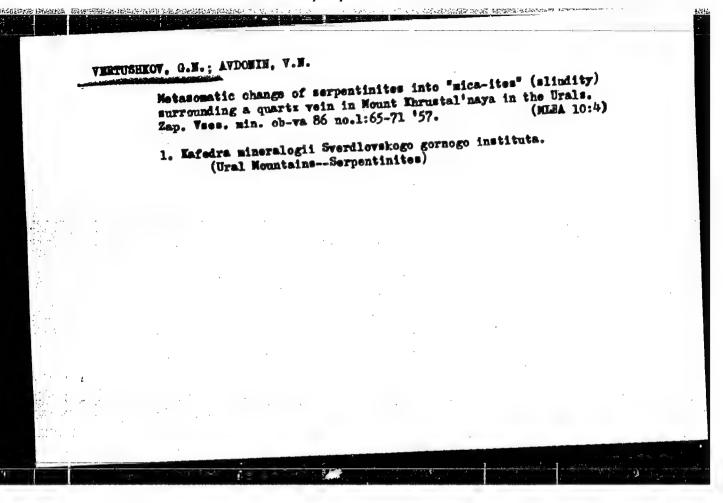
Dokl. AN 1956, 106, No 5, 907-910

Abstract: Chemical composition of black asbestes (in 4): MgO 41.98, CaO 12,

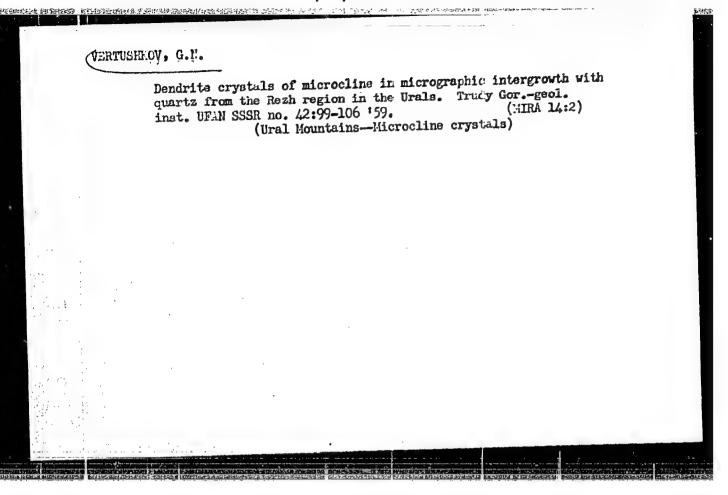
MnO 0.08, FeO 0.39, Fe<sub>2</sub>O<sub>3</sub> 1.07, Al<sub>2</sub>O<sub>3</sub> 0.28, SiO<sub>2</sub> 41.22. On treatment of this asbestos with various exidizing agents (H<sub>2</sub>O<sub>2</sub>, HNO<sub>3</sub>, etc) changes in the black coloration occurred with different transitions from black to white. Black color of the described asbestos can be

attributed to Fe(2+).

Card 1/1

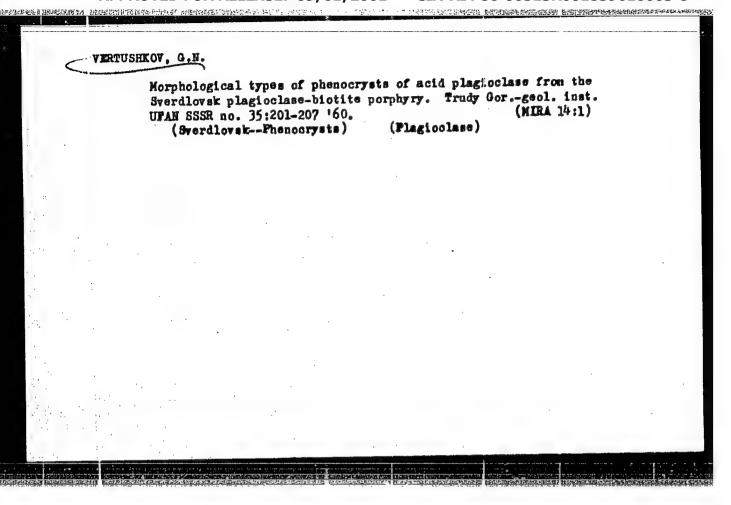


# VERTUSHKOV, G.N. Rhythmic phenomena in a coarsely dispersed medium during the formation of limonite geodes in the Bilimbay crystalline limestone deposit. Izv. An SSSR. Ser. geol. 24 no.6:108-112 Je '60. (MIRA 14:4) 1. Sverdlovskiy gornyy institut. (Bilimbay region—Geodes)



## "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610003-8

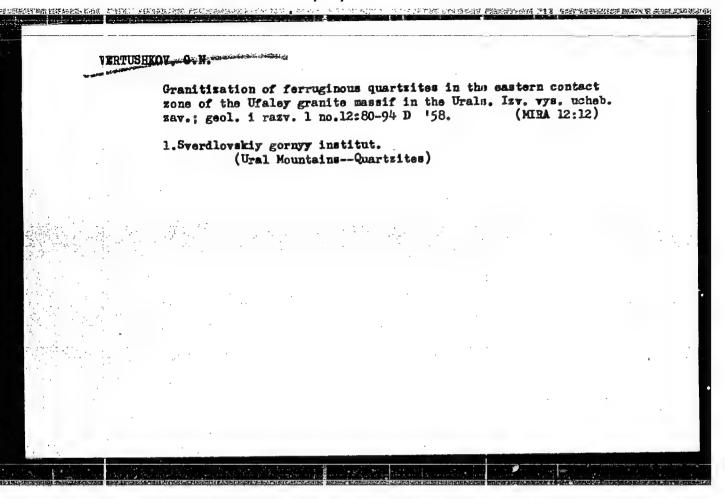


VERTUSHEOV, G.N.

Hydrargillite from the Missavetinskiy iron ore deposit in the Urals.
Zap. Vses. min. ob-va 89 no.5:570-572 '60. (MIRA 13:10)

1. Kafedra mineralogii Sverdlovskogo gornogo instituta.

(Ural Mountains—Gibbsite)



15-57-5-6512 Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,

p 114 (USSR)

AUTHOR: Vertushkov, G. N.

Ilmenite-Magnetite Ores from Dolomite Veins in the TITLE:

Urals (Il'menito-magnetitovyye rudy iz dolomitovoy

zhily na Urale)

Tr. Sverdl. gorn. in-ta, 1956, Nr 26, pp 98-104 PERIODICAL:

ABSTRACT: The Sugomak deposit, at present having only mineralogical value, is situated in the Kyshtym district

of the Chelyabinsk region, on the southern continuation of Sugomak Mountain. The district in which the deposit occurs is composed of massive antigorite serpentinites, grayish-green in color, and containing dust-like inclusions of magnetite. The serpentinites contain veins of dolomite up to two meters thick. The

veins have sharp contacts with the serpentinites,

Card 1/3

15-57-5-6512

Ilmenite- Magnetite Ores (Cont.)

which, at these places, are strongly sheared. The schistosity, parallel to the selvage of the vein, dies out away from the vein. Ore minerals form bands and accumulations of irregular form in the dolomite in the body of the veins. The ore minerals represent 20 to 30 percent of the total volume of the vein. The ore minerals are represented by a granular aggregate of ilmenite and magnetite filling fractures and cavities in the dolomite, cementing dolomite fragments, and partly replacing the dolomite. These relations fragments, and partly replacing the dolomite. These relations ore is predominantly magnetite. The TiO2 content is 25.42 percent. Ore is predominantly magnetite. The TiO2 content is 25.42 percent. Grains of ore rarely show crystal form and are everywhere allograins of ore rarely show crystal form and are everywhere allograins of ore rarely show crystal form and are everywhere allograins of ore ore areas of the grains ranges triomorphic in relation to each other. The size of the grains ranges triomorphic in relation to each other. The size of the grains ranges triomorphic in relation to each other, and are everywhere allogouth show intergrowths of hematite, the result of decomposition from both show intergrowths of hematite, the result of decomposition from solid solution. The absence of any indications of transection and replacement of one ore mineral by another, and also the equal degree of idiomorphism, lead one to conclude that the ilmenite and Card 2/3

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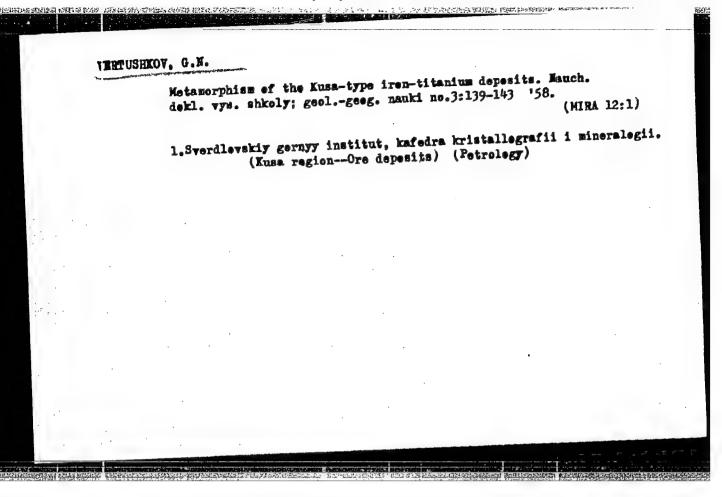
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Ilmenite-Magnetite Ores (Cont.)

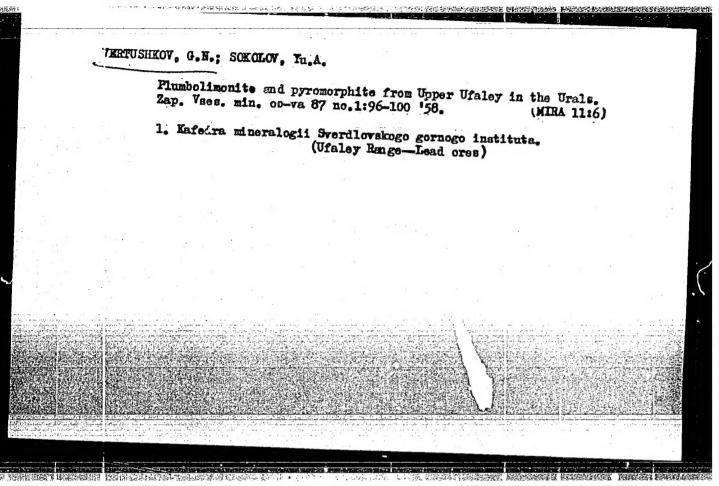
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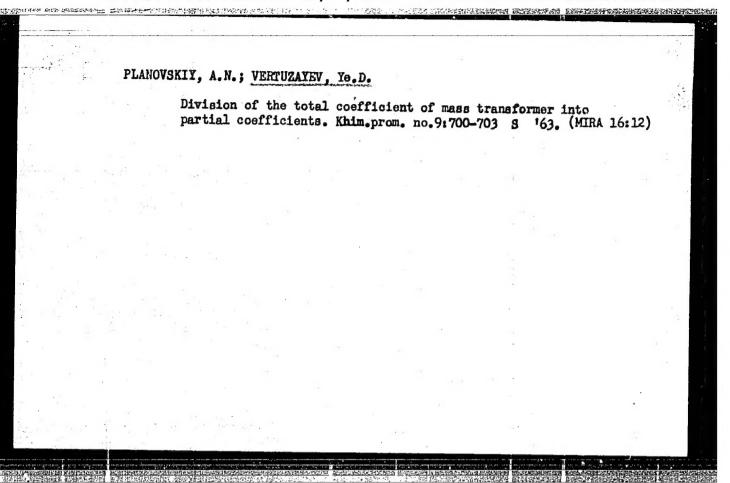
magnetite formed simultaneously. Apatite is present in considerable quantities in the ilmenite-magnetite aggregate. The veins originated where fractures formed in the serpentinites because of tectonic movements. These fractures were the sites of formation of the dolomite veins. The vein mineral was deposited from hydrothermal solutions containing CO2 and combinations of Cl and P at high temperatures. After the movements in the veins, the ilmenite-magnetite aggregate was deposited in cavities and by metasomatic replacement of the dolomite. The Sugomak deposit is genetically most closely related to veins of the alpine type in metamorphosed basic rocks. During metamorphism of these basic rocks, Ti does not enter the lattices of silicates but is concentrated in independent minerals. In the described occurrence, the elements of the Sugomak hyperbasite mass that did not enter into the composition of minerals in the serpentinite accumulated in structural fractures in combination with H2 and CO2.

A. B. B.



| VERTUSHKOV, G.N. |                          |                      |                |                              |                    |            |                          |         |  |
|------------------|--------------------------|----------------------|----------------|------------------------------|--------------------|------------|--------------------------|---------|--|
|                  | Andrew Services Services | Mffect of Zap. Vses. | gravity on the | ne natural g<br>37 no.4:469- | rowth and 475 '58. | dissolving | of crystals. (MIRA 12:1) |         |  |
|                  |                          | 1.Kafedra            | mineralogii    | Sverdlovskog<br>stalsGrowt   | go gornogo         | instituta. |                          |         |  |
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PTANOUSKIY, A.N.; BULATOV, S.N.; VERTUZAYEV, Ye.D.

Design of sieve-plate column extractors. Khim.prem. no.5:364-367
My '62.

(Extraction apparatus)

(Extraction apparatus)